## What is claimed is:

- 1. A method for identifying a compound capable of treating a pain disorder, comprising assaying the ability of the compound to modulate a NT69 nucleic acid expression or NT69 polypeptide activity, thereby identifying a compound capable of treating a pain disorder.
- 2. The method of claim 1, wherein the pain disorder is selected from the group consisting of inflammatory pain, a neuralgia, a nerve entrapment syndrome, and pain associated with a musculoskeletal disorder.
- 3. The method of claim 1, wherein the ability of the compound to modulate a NT69 nucleic acid expression or a NT69 polypeptide activity is determined by detecting a NT69 activity of a cell.
- 4. The method of claim 1, wherein the NT69 is a polypeptide comprising an amino acid sequence which is at least 90 percent identical to the amino acid sequence of SEQ ID NO:2 or the amino acid sequence encoded by the cDNA insert of the plasmid deposited with the ATCC® as Accession Number PTA2533533 wherein said percent identity is calculated using the ALIGN program for comparing amino acid sequences, a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4.
- 5. The method of claim 1, wherein the NT69 is a naturally occurring allelic variant of a polypeptide consisting of the amino acid sequence of SEQ ID NO:2, wherein the polypeptide is encoded by a nucleic acid molecule which hybridizes to a complement of a nucleic acid molecule consisting of SEQ ID NO:1 in 6X SSC at 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 65°C.
- 6. A method for identifying a compound capable of modulating a NT69 activity, comprising:
  - (a) contacting a cell which expresses NT69 with a test compound; and
- (b) assaying the ability of the test compound to modulate the expression of a NT69 nucleic acid or the activity of a NT69 polypeptide, thereby identifying a compound capable of modulating a NT69 activity.
- 7. A method for identifying a compound capable of modulating a NT69 activity, comprising:

- (a) contacting a polypeptide comprising the amino acid sequence of SEQ ID NO:2 or the amino acid sequence encoded by the cDNA insert of the plasmid deposited with the ATCC® as Accession Number PTA2533 with a test compound; and
- (b) assaying the ability of the test compound to modulate the activity of the polypeptide, thereby identifying a compound capable of modulating a NT69 activity.
- 8. A method for modulating a NT69 activity comprising contacting a cell expressing the NT69 with a NT69 modulator, thereby modulating the NT69 activity.
- 9. The method of claim 7, wherein the NT69 is a polypeptide comprising an amino acid sequence which is at least 90 percent identical to the amino acid sequence of SEQ ID NO:2 or the amino acid sequence encoded by the cDNA insert of the plasmid deposited with the ATCC® as Accession Number PTA2533, wherein said percent identity is calculated using the ALIGN program for comparing amino acid sequences, a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4.
- 10. The method of claim 8, wherein the NT69 is a naturally occurring allelic variant of a polypeptide consisting of the amino acid sequence of SEQ ID NO:2, wherein the polypeptide is encoded by a nucleic acid molecule which hybridizes to a complement of a nucleic acid molecule consisting of SEQ ID NO:1 in 6X SSC at 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 65°C.
- 11. The method of any of claims 1-10, wherein the compound or modulator is a small molecule.
- 12. The method of any of claims 1-10, wherein the compound or modulator is an anti-NT69 antibody.
- 13. The method of any of claims 1-10, wherein the compound or modulator is an antisense NT69 nucleic acid molecule.
- 14. The method of any of claims 1-10, wherein the compound or modulator is a NT69 ribozyme.
- 15. A method for treating a subject having a pain disorder characterized by aberrant NT69 polypeptide activity or aberrant NT69 nucleic acid expression, comprising

administering to the subject a NT69 modulator, thereby treating the subject having a pain disorder.

- 16. The method of claim 15, wherein said pain disorder is selected from the group consisting of inflammatory pain, a neuralgia, a nerve entrapment syndrome, and pain associated with a musculoskeletal disorder.
- The method of claim 15, wherein the modulator is selected from the group consisting of a small molecule NT69 agonist, a small molecule NT69 antagonist, a small molecule NT69 inverse agonist, an anti-NT69 antibody, an antisense NT69 molecule, and a NT69 ribozyme.
- 18. A pharmaceutical formulation for the treatment of pain disorders, comprising a compound that activates NT69 polypeptide activity or NT69 nucleic acid expression, mixed with a pharmaceutically acceptable carrier.
- 19. A pharmaceutical formulation for the treatment of pain disorders, comprising a compound that inhibits NT69 polypeptide activity or NT69 nucleic acid expression, mixed with a pharmaceutically acceptable carrier.
- 20. The pharmaceutical formulation of Claim 18 or 19, wherein the compound is selected from the group consisting of a small molecule NT69 agonist, a small molecule NT69 antagonist, a small molecule NT69 inverse agonist, an anti-NT69 antibody, an antisense NT69 molecule, and a NT69 ribozyme.
- 21. The pharmaceutical formulation of Claim 20 in which the compound is an oligonucleotide encoding an antisense or ribozyme molecule that targets NT69 transcripts and inhibits translation.
- 22. The pharmaceutical formulation of Claim 20 in which the compound is an oligonucleotide that forms a triple helix with the promoter of the NT69 gene and inhibits transcription.
- 23. A genetically engineered nonhuman mammal in which the NT69 gene has been inactivated.
- 24. A transgenic animal which expresses a human NT69 gene.

25. A kit comprising a NT69 nucleic acid molecule or NT69 polypeptide or cells expressing NT69 polypeptide and instructions for use.